

# Contents

## Volume 63

Change of membrane potential in rat urinary bladder epithelium treated with sodium L-ascorbate M. Asamoto, K. Imaida, R. Hasegawa, K. Hotta and S. Fukushima (Nagoya, Japan) .....	1–5
In vivo production of tumor necrosis factor for the treatment of ice bearing Ehrlich ascites tumor C.K. Wong, K.P. Fung, C.Y. Lee and Y.M. Choy (Shatin, Hong Kong) .....	7–13
Differentiation stage specificity of tyrosine phosphorylation in response to granulocyte macrophage colony stimulating factor (GM-CSF) M.P. DiGiovanna and A.C. Sartorelli (New Haven, CT) .....	15–22
HIV-1 infectivity of human carcinoma cell lines lacking CD4 receptors B. Brichacek, C. Derderian, J.-C. Chermann, and I. Hirsch (Marseille, France) .....	23–31
Sodium butyrate alters the response of a human colon carcinoma cell line to transforming growth factor- $\beta$ 1 L.R. Lewis and A.E. Levine (Houston, TX) .....	33–40
Antitumour principles from <i>Nigella sativa</i> seeds N.J. Salomi, S.C. Nair, K.K. Jayawardhanan, C.D. Varghese and K.R. Panikkar (Kerala, India) ..	41–46
Mechanisms of DNA damage induced in rat hepatocytes by quinones S.A. Solveig Walles (Solna, Sweden) .....	47–52
Peroxidase oxidizes <i>N</i> -nitrosomethylaniline to ultimate carcinogens(s) binding to DNA and transfer RNA in vitro M. Stiborová, E. Frei, H.H. Schmeiser, M. Wiessler and P. Anzenbacher (Prague, Czechoslovakia and Heidelberg, Germany) .....	53–59
Monoclonal antibody MON-114: detection of a marker for neuroendocrine differentiation in human lung cancer H.L.P. van Duijnhoven, E.H.M. Moors, A. Groeneveld, E.D.J. Timmer, L.F.M.H. de Leij, S.Sc. Wagenaar, J.M. Polak and W.J.M. van de Ven (Nijmegen, Groningen and Nieuwegein, The Netherlands, London, UK and Leuven, Belgium) .....	61–66
Effect of voluntary exercise on azoxymethane-induced hepatocarcinogenesis in male F344 rats S. Sugie, B.S. Reddy, A. Lowenfels, T. Tanaka and H. Mori (Gifu-City, Japan and Valhalla, NY)	67–72
Effects of tyrosinase activity on the cytotoxicity of 4- <i>S</i> -cysteaminyphenol and <i>N</i> -acetyl-4- <i>S</i> -cysteaminyphenol in melanoma cells J.A. Prezioso, M.W. Epperly, Nu Wang and W.D. Bloomer (Pittsburgh, PA) .....	73–79
Errata .....	81

## Review Letter

The toxicity of purified cellulose in studies with laboratory animals R.L. Anderson, J.W. Owens and C.W. Timms (Cincinnati, OH and Schwalbach am Taunus, Germany)	83–92
Altered glycosylation of alpha-fetoprotein in hepadnavirus-induced hepatocellular carcinoma of the woodchuck P.C. Kelleher, C.J.P. Walters, B.D. Myhre, B.C. Tennant, J.L. Gerin, P.J. Cote (Burlington, VT, Rockville, MD and Ithaca, NY) .....	93–99
Carcinogenesis and mutagenesis by <i>N</i> -nitroso compounds having a basic center W. Lijinsky, R.M. Kovatch and J.E. Saavedra (Frederick, MD) .....	101–107
The relationship of doxorubicin binding to membrane lipids with drug resistance S. Awasthi, R. Sharma, Y.C. Awasthi, J.A. Belli and E.P. Frenkel (Dallas and Galveston, TX) ...	109–116
Altered mammary responsiveness to estradiol and progesterone in mice exposed neonatally to diethylstilbestrol H.A. Bern, K.T. Mills, D.L. Hatch, P.L. Ostrander and T. Iguchi (Berkeley, CA) .....	117–124

Inhibitory effect of conjugated dienoic derivatives of linoleic acid and $\beta$ -carotene on the in vitro growth of human cancer cells T.D. Shultz, B.P. Chew, W.R. Seaman and L.O. Luedecke (Pullman, WA) .....	125 - 133
Intestinal epithelial cells contain a high molecular weight protease subject to inhibition by anticarcinogenic protease inhibitors J.M. Habres and P.C. Billings (Philadelphia, PA) .....	135 - 142
Host cell reactivation of cisplatin-damaged plasmid DNA in human non-T leukocyte cell lines M. Dabholkar and E. Reed (Bethesda, MD) .....	143 - 150
Antitumour imidazotetrazines XXVIII 3-methyladenine DNA glycosylase activity in cell lines sensitive and resistant to temozolomide B. Deans and M.J. Tisdale (Birmingham, UK) .....	151 - 157
Flaxseed supplementation and early markers of colon carcinogenesis M. Serraino and L.U. Thompson (Toronto, Canada) .....	159 - 165
The role of protein kinase c in migration of rat glioma cells from spheroid cultures P. Janik, B. Szaniawska, J. Miloszevska, E. Pietruszewska, D. Kowalczyk (Warsaw, Poland) .....	167 - 170

## Review Letter

Involvement of alkylating agents in schistosome-associated bladder cancer: the possible basic mechanisms of induction A.F. Badawi, M.H. Mostafa and P.J. O'Connor (Alexandria, Egypt and Manchester, UK) .....	171 - 188
Cytotoxic action of cis-unsaturated fatty acids on human cervical carcinoma (HeLa) cells: relationship to free radicals and lipid peroxidation and its modulation by calmodulin antagonists P. Sangeetha Sagar, U.N. Das, R. Koratkar, G. Ramesh, M. Padma and G. Sravan kumar (Hyderabad, India) .....	189 - 198
Peptide epitope binding and fluorescence quenching with the anti-mucin antibody C595 M.J. Scanlon, M.R. Price and S.J.B. Tendler (Nottingham, UK) .....	199 - 202
Assay of stanozolol for tumor initiating and promoting activity in two rat liver foci bioassays M. Ghia and E. Mereto (Genoa, Italy) .....	203 - 209
Antiproliferative effect of the garlic compound S-allyl cysteine on human neuroblastoma cells in vitro C. Welch, L. Wuarin and N. Sidell (Los Angeles, CA) .....	211 - 219
Synergistic inhibition of human gastric carcinoma cell growth by 1- $\beta$ -D-arabinofuranosylcytosine and hydroxy-urea or 2'-deoxyguanosine in vitro M. Matsumoto, T. Kawahara, M. Tsuda, T. Ohkubo, H. Kamiguchi and M. Yamamura (Kanagawa, Japan) .....	221 - 228
The co-carcinogen benzo[e]pyrene increases the binding of a low dose of the carcinogen benzo[a]pyrene to DNA in Sencar mouse epidermis H.H.S. Lau and W.M. Baird (West Lafayette, IN) .....	229 - 236
Effect of ascorbic acid and curcumin on quercetin-induced nuclear DNA damage, lipid peroxidation and protein degradation S.C. Sahu and M.C. Washington (Washington, DC) .....	237 - 241
Homozygosity of the short arm of chromosome 17 in cervical carcinoma S.E.H. Russell, W.S. Lowry, R.J. Atkinson and I. Hickey (Belfast, Northern Ireland) .....	243 - 247
Dietary cholesterol enhances the induction and development of colonic preneoplastic lesions in C57BL/6J and BALB/cJ mice treated with azoxymethane A. Venket Rao, S.A. Janezic, D. Friday and C.W. Kendall (Ontario, Canada) .....	249 - 257
Subject Index Volume 63 .....	259 - 262
Author Index Volume 63 .....	263 - 264
Contents Volume 63 .....	265 - 266

